AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 09/217,873

Filing Date: December 21, 1998

Title: DIGITAL YUV VIDEO EQUALIZATION AND GAMMA CORRECTION

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IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) A personal computer system comprising:
 - a video source capable of providing a digital YUV video signal;
 - a video output capable of connecting to a video display device;
- a digital processor <u>operable to execute software</u> computationally employing a corrective algorithm <u>via computational calculation</u> that applies <u>a nonlinear gamma correction function</u> to the digital YUV signal provided by the video source and provides a corrected signal to the video output.

- 2. (Original) The personal computer of claim 1 wherein the digital processor further employs a corrective algorithm that corrects at least one of color saturation correction, tint correction, brightness correction and contrast correction.
- 3. (Original) The personal computer system of claim 1, further comprising a software module for user configuration of the digital processor that corrects the digital YUV signal.
- 4. (Original) The personal computer system of claim 1, wherein the video sources comprise multiple sources selected from the group consisting of MPEG, NTSC, CVD, CD and satellite broadcast digital video signals.
- 5. (Original) The personal computer system of claim 2, wherein the digital YUV video signal is encoded with a correction factor that is compensated for in applying the corrective algorithms to the digital YUV signal.
- 6. (Currently Amended) A process comprising the steps of: receiving a YUV digital video signal; computationally applying a nonlinear gamma correction function to the digital YUV

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signal via computational calculation within a <u>digital processor via software in a personal</u> computer; and

providing a corrected digital YUV signal to an output for connection to a display device.

7. (Original) The process of claim 6 further comprising applying correction to the digital YUV signal such that the correction comprises at least one of color saturation correction, tint correction, brightness correction and contrast correction.

8. (Original) The process of claim 6, further comprising a step of configuration of a software module that configures the digital signal processor that corrects the digital YUV signal.

9. (Original) The process of claim 6, wherein the received YUV digital video signal is provided by video sources selected from the group consisting of MPEG, NTSC, CVD, CD and satellite broadcast digital video signals.

10. (Original) The process of claim 6, wherein the received digital YUV video signal is encoded with a correction factor that is compensated for in applying gamma correction to the digital YUV signal.

11. (Currently Amended) A personal computer system comprising:

- a processor;
- a bus;

main memory;

- a system controller;
- a graphics controller;
- a video source capable of providing a digital YUV video signal;
- a video output capable of connecting to a video display device; and
- a digital processor <u>operable to execute software computationally employing anonlinear</u> that computationally applies gamma correction <u>function</u> via computational calculation to the

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digital YUV signal provided by the video source and provides to provide a corrected signal to the video output.